

FIG. 1

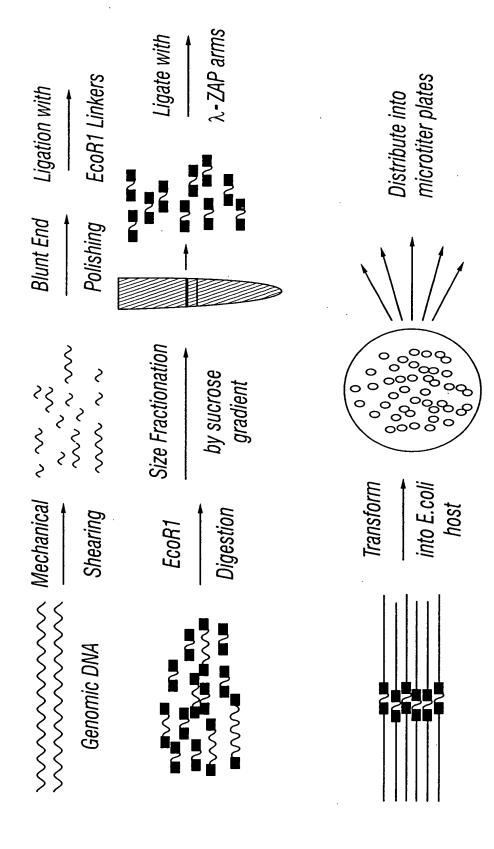


FIG. 2

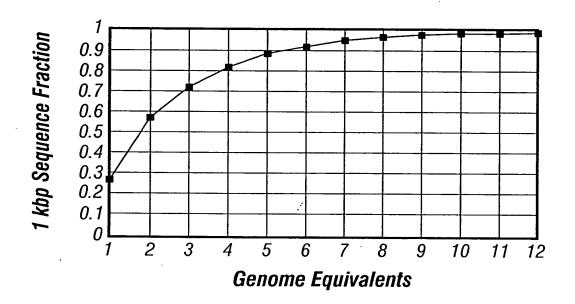


FIG. 3

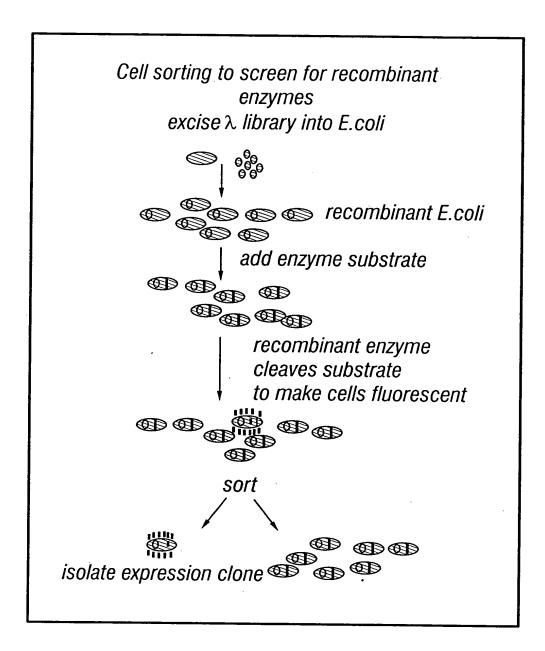
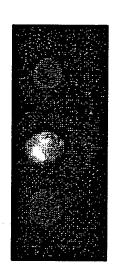


FIG. 4

β -Gal clone with different substrates

- cells were stained with FDG, CMFDG or C12FDG, incubated for 30 min. at 70°C, spotted onto a slide and exposed to UV light.
- bright spot indicates staining of cells



FDG

C12FDG

CMFDG

FIG. 5

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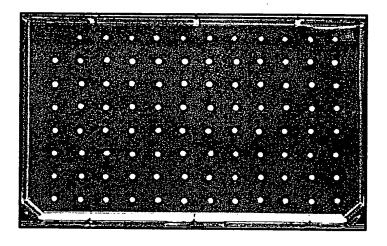


FIG. 6

$$R_1$$
 0 -Flour. $H_2\bar{0}$ R_1 0 -Flour —

FIG. 7

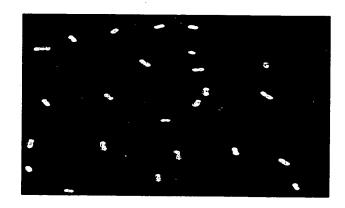


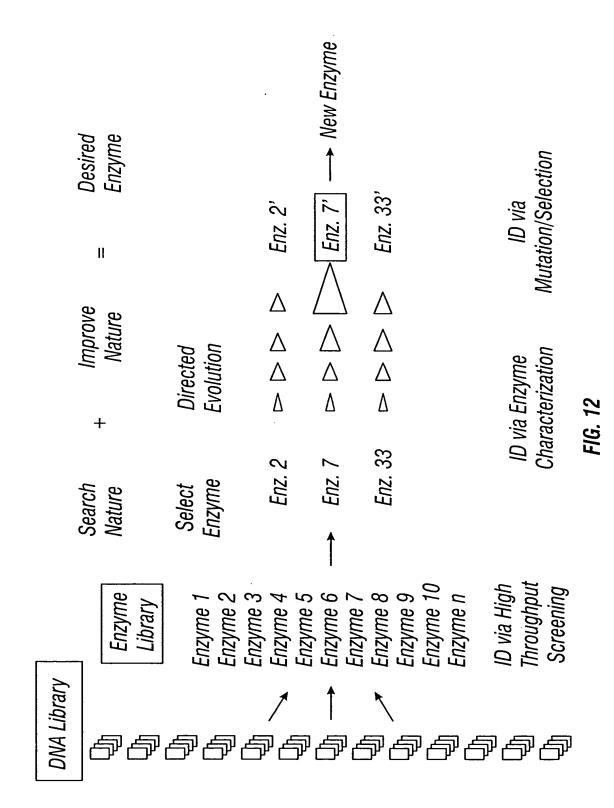
FIG. 8

$$H_{3}C(H_{2}C) \xrightarrow{C} O \xrightarrow{C} O CHCI_{3} Triethylamine N,N-Dlisopropylethylamine} Lauric anhydride
$$H_{3}C(H_{2}C)_{10} \xrightarrow{C} O CHCI_{3} Triethylamine N,N-Dlisopropylethylamine} O CHCI_{3} Triethylamine} O CHCI_{3} Triethylamine$$$$

FIG. 9

9/16 Monoxygenase
$$\searrow_{N}^{0}$$
 \searrow_{N}^{0} \searrow_{N}^{0}

-16. 11



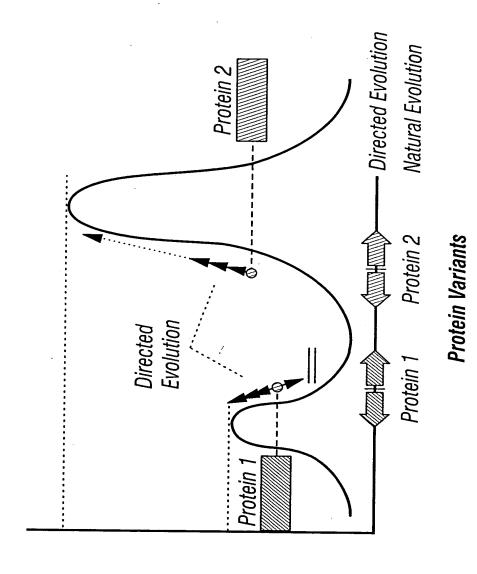
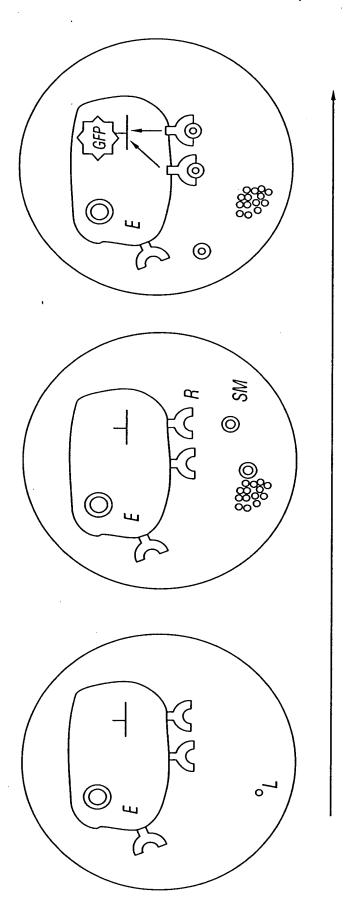


FIG. 13

Buffer Compatibility
Process Compatibility

T Stability Solvent Stability • Expression Level Relative Enzyme Activity



Receptor binding of small molecule & GFP reporting

Growth and expression of small molecule from host

Library + Eukaryote

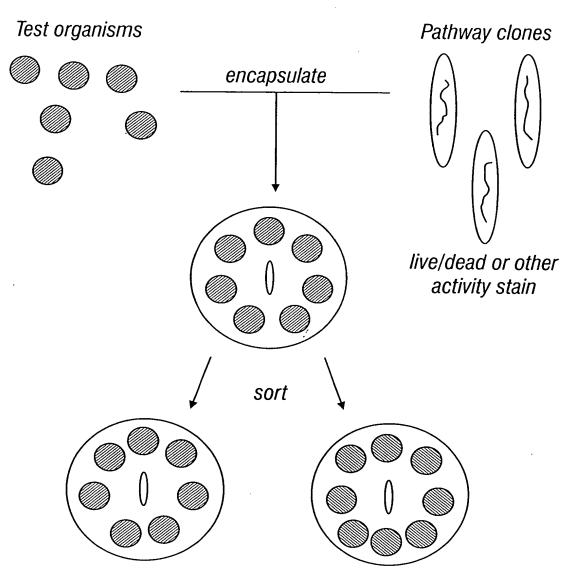
Co-encapsulation

R=Eukaryotic receptor L=Large insert library GFP= Green fluorescent protein E=Eukaryotic assay organism

SM=Small molecule

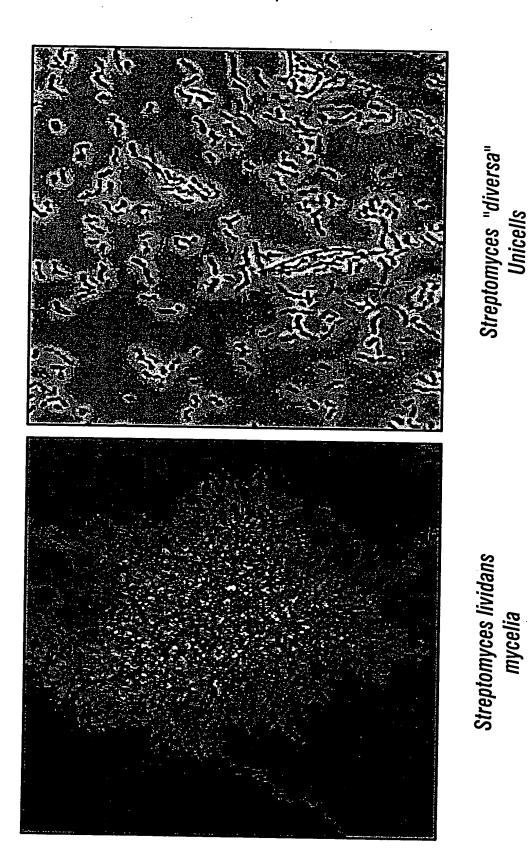
FIG. 14

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bioactive expression (e.g. live/dead, groth rate, metabolic stains etc.)

FIG. 15



Streptomyces "diversa" Unicells

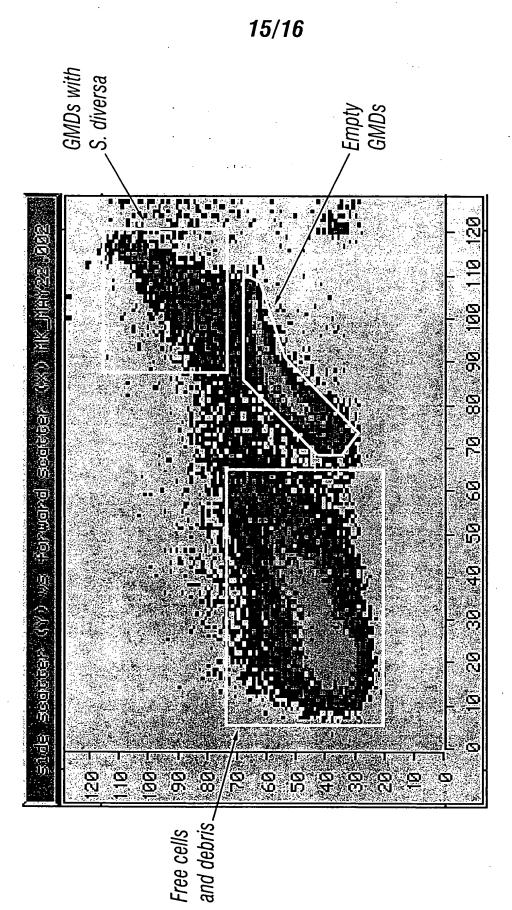


FIG. 17

